

## DISCOVER-AQ Ground Trace Gas Parameters

Sensor	Measurement	Parameter	Unit	Description
R.M. Young Met Instruments	Meteorological and Navigational Parameters	TEMP_degC	deg C	Surface ambient temperature at 4 M
R.M. Young Met Instruments	Meteorological and Navigational Parameters	RELHUMID_percent	percent	Surface ambient relative humidity
R.M. Young Met Instruments	Meteorological and Navigational Parameters	PRESS_hPa	hPa	Surface ambient pressure
R.M. Young Met Instruments	Meteorological and Navigational Parameters	WS_mps	mps	Surface wind speed at 4 M
R.M. Young Met Instruments	Meteorological and Navigational Parameters	WD_deg	deg	Surface wind direction
TECO 49C (O3)	Trace Gases: Hydrogen and Oxygen Compounds	O3_ppbv	ppbv	Surface ozone mixing ratio
TECO 42CY (NO/NOy)	Trace Gases: Nitrogen Compounds	NO_ppbv	ppbv	Surface nitric oxide mixing ratio
TECO 42CY (NO/NOy)	Trace Gases: Nitrogen Compounds	NOY_ppbv	ppbv	Sum of surface reactive nitrogen mixing ratio
TECO 42CY (NO/NOy)	Trace Gases: Nitrogen Compounds	DIFFNOY_ppbv	ppbv	Difference mixing ratio between NOy and NO
TECO 43C	Trace Gases: Sulfur Compounds	SO2_ppbv	ppbv	Surface sulfur dioxide mixing ratio
TECO 48C	Trace Gases: Carbon and Hydrocarbon Compounds: Oxygenates and Acids	CO_ppmv	ppmv	Surface carbon monoxide mixing ratio
Metcon 2-PI Radiometer	J values	JNO2_persecond	S-1	Nitrogen dioxide photolysis rate coefficient